Chapter 3

Tables

Table 3-1. Summary of Direct Habitat Loss of Wetland/Riparian and Upland Wildlife Habitats by Alternative

Alternative	Wetland/Riparian Habitats	Upland Habitats
No Build	0 ha (0 ac)	0 ha (0 ac)
Alternative A	44.4 ha (109.8 ac)	201.3 ha (497.4 ac)
Alternative B	79.4 ha (196.2 ac)	270.2 ha (667.8 ac)
Alternative C	63.4 ha (156.7 ac)	198.1 ha (489.5 ac)
Alternative E	52.3 ha (129.3 ac)	200.2 ha (494.8 ac)

Table 3-2. Wildlife Habitat Availability within the Regional Study Area at Low and High Lake Levels

	Alternative A				Alternative B			
Habitat	Area* (acres)	% of Regional Habitat at Low Lake Level	% of Regional Habitat at High Lake Level	Change in % Between High and Low Lake Level	Area* (acres)	% of Regional Habitat at Low Lake Level	% of Regional Habitat at High Lake Level	Change in % Between High and Low Lake Level
Pasture	315	0.11	0.11	0.00	351	0.12	0.12	0.00
Cropland	1	0.00	0.00	0.00	3	0.00	0.00	0.00
Scrub	267	0.13	0.13	0.00	283	0.14	0.14	0.00
Wet Meadow	52	0.05	0.08	0.02	87	0.09	0.09	0.00
Emergent Marsh	24	0.06	0.16	0.10	110	0.26	0.56	0.31
Mudflat/Pickleweed	2	0.00	0.00	0.00	12	0.01	0.00	0.00
Riparian	0	0.00	0.00	0.00	1	0.02	0.03	0.00

	Alternative C				Alternative E			
Habitat	Area* (acres)	% of Regional Habitat at Low Lake Level	% of Regional Habitat at High Lake Level	Change in % Between High and Low Lake Level	Area* (acres)	% of Regional Habitat at Low Lake Level	% of Regional Habitat at High Lake Level	Change in % Between High and Low Lake Level
Pasture	213	0.07	0.08	0.00	274	0.10	0.10	0.00
Cropland	1	0.00	0.00	0.00	0	0.00	0.00	0.00
Scrub	293	0.14	0.14	0.00	286	0.14	0.14	0.00
Wet Meadow	71	0.07	0.08	0.01	67	0.07	0.09	0.03
Emergent Marsh	86	0.20	0.39	0.19	44	0.10	0.29	0.18
Mudflat/Pickleweed	17	0.01	0.01	0.00	3	0.00	0.00	0.00
Riparian	0	0.01	0.00	-0.01	0	0.00	0.00	0.00

*Area represents acreage of each habitat that lies within the build alternative right-of-way. These acreages are based upon the regional dataset to facilitate regional-scale analysis.

Table 3-3. Wildlife Habitat Availability within the Project Study Area at Low and High Lake Levels

	Project Study Area			Alternative A				Alternative B			
Habitat	At Low Lake Level (acres)*	At High Lake Level (acres)	Change in Available Habitat (acres) Between Low and High Lake Level	Area (acres)	% of Project Study Area Habitat at Low Lake Level	% of Project Study Area Habitat at High Lake Level	Change in % Between High and Low Lake Level	Area (acres)	% of Project Study Area Habitat at Low Lake Level	% of Project Study Area Habitat at High Lake Level	Change in % Between High and Low Lake Level
Pasture	3,372	3,371	1	315	9.333	9.336	0.004	351	10.401	10.405	0.004
Cropland	83	81	1	1	0.809	0.820	0.011	3	3.774	3.825	0.052
Scrub	2,469	2,416	53	267	10.808	11.045	0.237	283	11.465	11.717	0.251
Wet Meadow	1,203	888	315	52	4.326	5.860	1.534	87	7.266	9.842	2.577
Emergent Marsh	1,212	541	671	24	1.982	4.443	2.461	110	9.064	20.321	11.257
Mudflat/Pickleweed	341	62	279	2	0.717	3.915	3.198	12	3.453	18.861	15.408
Riparian	8	6	2	0	0.000	0.000	0.000	1	11.765	15.385	3.620

	Alternative C				Alternative E			
	Area (acres)	% of Project Study Area Habitat at Low Lake Level	% of Project Study Area Habitat at High Lake Level	Change in % Between High and Low Lake Level	Area (acres)	% of Project Study Area Habitat at Low Lake Level	% of Project Study Area Habitat at High Lake Level	Change in % Between High and Low Lake Level
Pasture	213	6.305	6.308	0.002	274	8.126	8.129	0.003
Cropland	1	0.809	0.820	0.011	0	0.539	0.546	0.007
Scrub	293	11.862	12.121	0.260	286	11.591	11.845	0.254
Wet Meadow	71	5.879	7.964	2.085	67	5.546	7.513	1.967
Emergent Marsh	86	7.101	15.919	8.818	44	3.651	8.186	4.535
Mudflat/Pickleweed	17	4.951	27.046	22.095	3	0.782	4.270	3.489
Riparian	0	2.941	3.846	0.905	0	0.000	0.000	0.000

* Acreages in this table are derived from the regional GIS dataset, which is a low-resolution dataset. Consequently, the acreages differ from those presented in project-level analyses.

Table 3-4. Summary of Habitat Fragmentation by Habitat Category Resulting from Build Alternatives

Habitat Category	Alternative		Number of Patches in Each Size Class					**Total Number of Patches**	Summary Statistics (acres)	
			<1	1–10	10–50	50–100	>100		Mean Patch Size	Median Patch Size
Upland	No Action		147	70	40	13	12	**282**	21.20	0.79
	Alternative A	Patches Fragmented	10	9	15	7	10			
		Total Patches	175	97	46	13	13	**344**	15.93	0.90
	Alternative B	Patches Fragmented	6	16	22	10	11			
		Total Patches	196	97	59	14	12	**378**	14.05	0.84
	Alternative C	Patches Fragmented	9	14	17	8	10			
		Total Patches	181	100	50	11	13	**355**	15.46	0.94
	Alternative E	Patches Fragmented	7	8	12	7	10			
		Total Patches	182	91	47	17	11	**348**	15.76	0.79
Wetland	No Action		464	227	39	5	2	**737**	3.17	0.60
	Alternative A	Patches Fragmented	38	57	9	1	1			
		Total Patches	494	218	36	5	2	**755**	2.96	0.48
	Alternative B	Patches Fragmented	78	78	15	3	2			
		Total Patches	500	206	39	6	1	**752**	2.88	0.48
	Alternative C	Patches Fragmented	70	74	13	2	1			
		Total Patches	498	206	36	7	1	**748**	2.93	0.45
	Alternative E	Patches Fragmented	55	65	7	1	1			
		Total Patches	486	208	39	5	2	**740**	3.01	0.45
Open Water	No Action		25	12	4	1	1	**43**	7.27	0.69
	Alternative A	Patches Fragmented	2		2	1	0			
		Total Patches	28	15	3	1	1	**48**	6.31	0.61
	Alternative B	Patches Fragmented	1	1	2	1	0			
		Total Patches	28	14	4	0	1	**47**	6.09	0.74
	Alternative C	Patches Fragmented	2	0	2	0	0			
		Total Patches	28	14	4	1	1	**48**	6.31	0.64
	Alternative E	Patches Fragmented	2	0	2	1	0			
		Total Patches	26	14	4	1	1	**46**	6.41	0.69

Table 3-5. Summary of Habitat Fragmentation Statistics by Habitat Type Resulting from Build Alternatives

Habitat Type	Alternative		Number of Patches in Each Size Class					Summary Statistics (Acres)				
			<1	1–10	10–50	50–100	>100	Number of Patches	Mean Patch Size	Median Patch Size	Patch Size Coefficient of Variance	Standard Deviation
Cropland	No Action		25	18	18	5	4	70	24.76	4.49	0.06	56.43
	Alternative A	Patches Fragmented	2	2	7	3	3					
		Total Patches	30	22	19	8	3	82	19.46	4.33	0.04	34.94
	Alternative B	Patches Fragmented	3	6	11	5	4					
		Total Patches	33	25	28	7	2	95	15.61	4.33	0.04	26.27
	Alternative C	Patches Fragmented	2	2	7	3	3					
		Total Patches	32	26	21	4	5	88	18.34	3.35	0.05	37.84
	Alternative E	Patches Fragmented	2	1	6	1	3					
		Total Patches	31	21	20	8	3	83	19.31	4.33	0.04	34.68
Emergent Marsh	No Action		68	41	9	2	1	121	5.84	0.73	0.08	17.80
	Alternative A	Patches Fragmented	4	8	3							
		Total Patches	77	45	7	2	1	132	5.19	0.62	0.08	16.99
	Alternative B	Patches Fragmented	18	9	4	1	1					
		Total Patches	71	41	8	2	1	123	5.35	0.72	0.08	17.29
	Alternative C	Patches Fragmented	9	9	5	1						
		Total Patches	70	41	9	2	1	123	5.59	0.72	0.08	17.41
	Alternative E	Patches Fragmented	6	9	2							
		Total Patches	76	40	9	2	1	128	5.33	0.60	0.08	17.26
Mudflat/Pickleweed	No Action		211	61	6	1		279	1.58	0.26	0.10	6.23
	Alternative A	Patches Fragmented	7	4								
		Total Patches	208	60	6	1		275	1.58	0.25	0.10	6.26

Table 3-5. Continued

Habitat Type	Alternative		Number of Patches in Each Size Class					Summary Statistics (Acres)				
			<1	1–10	10–50	50–100	>100	Number of Patches	Mean Patch Size	Median Patch Size	Patch Size Coefficient of Variance	Standard Deviation
	Alternative B	Patches Fragmented	20	16	1							
		Total Patches	224	56	5	1		286	1.47	0.24	0.10	6.13
	Alternative C	Patches Fragmented	26	18	1							
		Total Patches	221	54	6	1		282	1.45	0.22	0.11	6.17
	Alternative E	Patches Fragmented	17	9								
		Total Patches	212	57	6	1		276	1.53	0.24	0.10	6.25
Open Water	No Action		25	12	4	1	1	43	7.27	0.69	0.07	20.92
	Alternative A	Patches Fragmented	2		2	1						
		Total Patches	28	15	3	1	1	48	6.31	0.61	0.08	19.36
	Alternative B	Patches Fragmented	1	1	2	1						
		Total Patches	28	14	4		1	47	6.09	0.74	0.08	18.97
	Alternative C	Patches Fragmented	2		2							
		Total Patches	28	14	4	1	1	48	6.31	0.64	0.08	19.40
	Alternative E	Patches Fragmented	2		2	1						
		Total Patches	26	14	4	1	1	46	6.41	0.69	0.07	19.41
Pasture	No Action		65	23	16	7	7	118	25.11	0.45	0.10	97.38
	Alternative A	Patches Fragmented	5	5	8	4	6					
		Total Patches	84	45	19	3	7	158	17.42	0.79	0.12	81.73
	Alternative B	Patches Fragmented	2	6	8	5	6					
		Total Patches	95	37	26	6	6	170	15.54	0.45	0.10	64.41
	Alternative C	Patches Fragmented	5	8	5	5	6					
		Total Patches	79	35	25	4	6	149	18.55	0.83	0.11	83.92
	Alternative E	Patches Fragmented	4	5	6	6	6					

Table 3-5. Continued

Habitat Type	Alternative		Number of Patches in Each Size Class					Summary Statistics (Acres)				
			<1	1–10	10–50	50–100	>100	Number of Patches	Mean Patch Size	Median Patch Size	Patch Size Coefficient of Variance	Standard Deviation
		Total Patches	85	39	19	7	5	155	17.71	0.72	0.11	82.02
Riparian	No Action		9	16	1			26	2.73	1.61	0.03	3.62
	Alternative A	Patches Fragmented	5	6								
		Total Patches	9	16	1			26	2.58	1.61	0.03	3.57
	Alternative B	Patches Fragmented	5	10								
		Total Patches	15	13	1			29	2.25	0.92	0.04	3.50
	Alternative C	Patches Fragmented	5	9								
		Total Patches	9	15	1			25	2.64	1.61	0.03	3.61
	Alternative E	Patches Fragmented	5	7								
		Total Patches	5	16	1			22	3.04	2.04	0.03	3.71
Scrub	No Action		57	29	6	1	1	94	13.64	0.49	0.19	104.57
	Alternative A	Patches Fragmented	3	2			1					
		Total Patches	61	30	8	2	3	104	10.89	0.56	0.12	52.38
	Alternative B	Patches Fragmented	1	4	3		1					
		Total Patches	68	35	5	1	4	113	10.49	0.49	0.11	47.56
	Alternative C	Patches Fragmented	2	4	5		1					
		Total Patches	70	39	4	3	2	118	9.42	0.57	0.13	48.37
	Alternative E	Patches Fragmented	1	2			1					
		Total Patches	66	31	8	2	3	110	10.33	0.49	0.12	50.08

Table 3-5. Continued

Habitat Type	Alternative		Number of Patches in Each Size Class					Summary Statistics (Acres)				
			<1	1–10	10–50	50–100	>100	Number of Patches	Mean Patch Size	Median Patch Size	Patch Size Coefficient of Variance	Standard Deviation
Wet Meadow	No Action		176	109	23	2	1	311	3.60	0.85	0.08	10.93
	Alternative A	Patches Fragmented	22	39	6	1	1					
		Total Patches	200	97	22	2	1	322	3.26	0.71	0.08	10.50
	Alternative B	Patches Fragmented	35	43	10	2	1					
		Total Patches	190	96	25	3		314	3.26	0.72	0.06	8.26
	Alternative C	Patches Fragmented	30	38	7	1	1					
		Total Patches	198	96	20	4		318	3.23	0.71	0.07	8.75
	Alternative E	Patches Fragmented	27	40	5	1	1					
		Total Patches	193	95	23	2	1	314	3.35	0.72	0.08	10.65

Table 3-6. Typical Highway Runoff Contaminants

Contaminant	Source
Total dissolved solids (TDS)	De-icing salts, vehicle deposits, pavement wear
Heavy metals (copper, lead, zinc)	Vehicle deposits
Chlorides, sodium, calcium	De-icing salts
Cyanide	Anticake compound used to keep de-icing salts granular
Petroleum	Vehicle spills and leaks from lubricants, antifreeze, hydraulic fluids
Pathogenic bacteria	Soil, litter, trucks hauling livestock
Rubber	Tire wear
Sediments (TSS)	Construction activities, vehicle deposits, pavement wear
Organic Compounds	Crankcase oil and vehicle emissions*

Source: Federal Highway Administration 1987a
* Source: U.S Geological Survey 2003 as presented in HDR Engineering, Inc. 2004

Table 3-7. Wildlife Habitat (by Special-Status Bird Species) That Would Potentially Be Affected by Highway Noise

Habitat	Type[1]	Area (acres)			
		Alt A	Alt B	Alt C	Alt E
Bald Eagle					
Riparian	FB	3	4	3	3
Emergent Marsh	F	19	38	33	16
Wet Meadow	F	53	80	62	47
Mudflat Pickleweed	F	2	17	20	7
Pasture	F	161	218	150	148
Salt Desert Scrub	F	56	57	73	58
Total		295	416	340	279
Swainson's Hawk					
Riparian	B	3	4	3	3
Emergent Marsh	F	19	38	33	16
Wet Meadpw	F	53	80	62	47
Mudflat Pickleweed	F	2	17	20	7
Pasture	F	161	218	150	148
Cropland	F	97	174	102	91
Salt Desert Scrub	F	56	57	73	58
Total		392	590	442	369
Peregrine Falcon					
Riparian	F	11	21	97	10
Emergent Marsh	F	72	129	251	64
Wet Meadow	F	180	331	119	185
Mudflat/Pickleweed	F	24	77	457	39
Pasture	F	546	904	432	562
Cropland	F	377	662	279	368
Scrub	F	219	230	410	211
Total		1,430	2,354	2,045	1,439
Prairie Falcon					
Emergent Marsh	F	123	255	482	103
Wet Meadow	F	321	593	196	360
Mudflat/Pickleweed	F	62	145	954	71
Pasture	F	1,019	1,608	713	1,051
Cropland	F	641	1,061	449	629
Scrub	F	396	447	699	366
Total		2,563	4,111	3,493	2,580

Habitat	Type[1]	Area (acres)			
		Alt A	Alt B	Alt C	Alt E
Burrowing Owl					
Mudflat/Pickleweed	F	62	145	954	71
Pasture	F	1,019	1,608	713	1,051
Scrub	FB	396	447	699	366
Total		1,477	2,201	2,366	1,488
Short-eared Owl					
Emergent Marsh	F	123	255	482	103
Wet Meadow	F	321	593	196	360
Mudflat/Pickleweed	F	62	145	954	71
Pasture	F	1,019	1,608	713	1,051
Cropland	F	641	1,061	449	629
Scrub	FB	396	447	699	366
Total		2,563	4,111	3,493	2,580
Wilson's Phalarope					
Open Water	F	121	181	42	132
Emergent Marsh	F	264	436	689	305
Wet Meadow	FB	581	892	292	567
Mudflat/Pickleweed	F	183	276	1,447	201
Pasture	F	1,634	2,287	1,126	1,531
Total		2,662	3,891	3,554	2,603
Bobolink					
Wet Meadow	F	763	939	369	733
Pasture	F	1,998	2,523	1,343	1,875
Cropland	F	1,309	1,456	893	1,318
Scrub	F	891	1,003	1,259	871
Total		4,961	5,921	3,864	4,797
American Avocet					
Open Water	F	18	27	10	21
Emergent Marsh	F	39	67	101	35
Wet Meadow	F	99	171	81	92
Mudflat/Pickleweed	F	8	35	166	16
Pasture	F	291	436	242	288
Total		456	735	600	452

[1] Type signifies species use of habitat.

F = Foraging

B = Breeding Habitat

FB = Foraging and Breeding Habitat

Table 3-8. Areal Comparison of the Build Alternatives with the Regional Study Area*

	Regional Land Cover	Project Study Area		Alternative A		Alternative B		Alternative C		Alternative E	
Habitat	acres	acres	%	acres	%	acres	%	acres	%	acres	%
Cropland	113,742	83	0.07	1	0.001	3	0.003	1	0.001	0	0.000
Developed	159,416	467	0.29	108	0.068	111	0.069	105	0.066	111	0.069
Emergent Marsh	42,817	1,212	2.83	24	0.056	110	0.257	86	0.201	44	0.103
Mudflat/Pickleweed	184,915	341	0.18	2	0.001	12	0.006	17	0.009	3	0.001
Pasture	285,165	3,372	1.18	315	0.110	351	0.123	213	0.075	274	0.096
Riparian	3,728	8	0.20	0	0.000	1	0.024	0	0.006	0	0.000
Scrub	206,017	2,469	1.20	267	0.130	283	0.137	293	0.142	286	0.139
Unclassified	11,283	67	0.60	23	0.205	24	0.217	26	0.227	22	0.195
Upland	22,084	707	3.20	79	0.356	101	0.458	64	0.290	79	0.357
Wet Meadow	99,139	1,203	1.21	52	0.052	87	0.088	71	0.071	67	0.067
Total Wetland[1]	326,871	2,756	0.84	79	0.024	209	0.064	174	0.053	114	0.035
Total Upland[2]	604,923	5,924	0.98	582	0.096	637	0.105	506	0.084	561	0.093
Total[3]	1,128,305	9,929	0.88	870	0.077	1,083	0.096	874	0.077	886	0.079

* Areal calculations are based on regional-scale data. Please refer to the cumulative impacts analysis and Appendix B for a discussion of data limitations.
[1] Total Wetland comprises emergent marsh, wet meadow, and mudflat/pickleweed.
[2] Total Upland comprises desert salt scrub, cropland, and pasture.
[3] Total is the sum of all habitat types

Table 3-9. Comparison of Estimated Historic Wetland/Wildlife Habitat and Current Habitat Availability by Hydrologic Unit (acres)

	Bear River	Jordan River	Utah Lake	Ogden	Promontory Point West	Salt Lake	Tooele Valley	Total
Estimated Historic Wetland Habitat [1]	297,827	98,954	66,147	115,196	10,249	19,473	70,784	678,630
NWI Wetland Habitat [1]	134,539	37,333	11,018	35,043	3,290	7,880	56,370	284,650
Percent Remaining Wetland Habitats	45%	38%	17%	30%	32%	36%	80%	42%

[1] Area reported is the geographic extent of the area common to both datasets as of May 2003 within the regional study area. Area is reported in acres.

Table 3-10. Ownership Status of Regional Study Area and Ownership Status of Wetland / Riparian Habitats

Ownership Status	Acres	% of Area under Each Ownership Type for the Watersheds	Available Wetland/ Riparian (Acres)	Percent of Available Wetland/Riparian Habitats
Private	1,044,266	51	164,041	47
Public	240,532	12	143,644	41
Public/Private	12,175	1	5,977	2
Public Trust	18,616	1	13,283	4
Unclassified Ownership (Water)	748,006	36	19,428	6
Total Area Analyzed	2,063,595	100	346,374	100

Table 3-11. Distribution of Available Habitat at Low and High Water by Ownership Status and Watershed

Habitat	Private				Public				Public / Private				Public Trust				Total Low Water (acres)[1]
	Low Water (acres)	Low Water (%)	High Water (acres)	High Water (%)	Low Water (acres)	Low Water (%)	High Water (acres)	High Water (%)	Low Water (acres)	Low Water (%)	High Water (acres)	High Water (%)	Low Water (acres)	Low Water (%)	High Water (acres)	High Water (%)	
Bear River Hydrologic Unit																	
Cropland	83,870	99	83,352	99	394	0	378	0	197	0	197	0	0	0	0	0	84,507
Developed	4,495	87	4,491	87	53	1	50	1	626	12	626	12	0	0	0	0	5,180
Emergent Marsh	4,133	50	2,455	30	2,659	32	742	9	3	0	2	0	256	3	229	3	8,283
Mudflat/Pickleweed	28,346	33	17,445	21	46,867	55	10,945	13	4,352	5	2,645	3	796	1	703	1	84,797
Pasture	81,021	96	79,661	94	2,112	3	1,957	2	1,079	1	1,078	1	32	0	27	0	84,362
Riparian	1,165	74	1,090	70	365	23	28	2	0	0	0	0	0	0	0	0	1,566
Scrub	32,548	86	31,541	84	3,269	9	3,004	8	1,667	4	1,667	4	89	0	79	0	37,659
Upland	356	82	353	81	16	4	14	3	61	14	61	14	0	0	0	0	433
Wet Meadow	24,356	55	17,445	39	15,953	36	5,476	12	174	0	172	0	201	0	114	0	44,377
Jordan River Hydrologic Unit																	
Cropland	627	100	627	100	0	0	0	0	0	0	0	0	0	0	0	0	627
Developed	87,285	100	87,181	100	279	0	263	0	0	0	0	0	6	0	6	0	87,588
Emergent Marsh	7,186	64	2,332	21	2,836	25	12	0	0	0	0	0	0	0	0	0	11,261
Mudflat/Pickleweed	14,693	61	9,026	38	8,519	35	232	1	0	0	0	0	0	0	0	0	24,065
Pasture	32,512	99	32,445	99	375	1	374	1	4	0	4	0	0	0	0	0	32,903
Riparian	182	97	175	93	6	3	1	1	0	0	0	0	0	0	0	0	188
Scrub	31,160	98	30,687	96	614	2	602	2	71	0	71	0	0	0	0	0	31,923
Upland	7,810	97	7,755	96	226	3	226	3	3	0	3	0	0	0	0	0	8,053
Wet Meadow	8,009	93	6,328	74	396	5	126	1	0	0	0	0	0	0	0	0	8,601
Ogden Hydrologic Unit																	
Cropland	22,932	100	22,925	100	51	0	50	0	1	0	0	0	1	0	1	0	22,987
Developed	39,220	96	39,216	96	1,377	3	1,335	3	18	0	18	0	6	0	6	0	40,650
Emergent Marsh	3,752	24	2,654	17	10,860	71	559	4	274	2	37	0	9	0	1	0	15,363
Mudflat/Pickleweed	2,653	20	1,716	13	9,891	76	302	2	137	1	16	0	7	0	0	0	13,045
Pasture	60,092	97	60,046	97	1,643	3	1,601	3	176	0	176	0	2	0	2	0	61,931
Riparian	1,421	95	1,415	95	62	4	25	2	5	0	5	0	0	0		0	1,490
Scrub	24,626	91	24,484	90	2,039	7	1,801	7	490	2	488	2	3	0	3	0	27,201
Upland	4,727	96	4,723	96	143	3	142	3	33	1	33	1	0	0	0	0	4,905
Wet Meadow	12,319	72	10,994	64	3,993	23	845	5	680	4	295	2	2	0		0	17,201

Table 3-11. Continued

Habitat	Private				Public				Public / Private				Public Trust				Total Low Water (acres)[1]
	Low Water (acres)	Low Water (%)	High Water (acres)	High Water (%)	Low Water (acres)	Low Water (%)	High Water (acres)	High Water (%)	Low Water (acres)	Low Water (%)	High Water (acres)	High Water (%)	Low Water (acres)	Low Water (%)	High Water (acres)	High Water (%)	
Promontory Point West Hydrologic Unit																	
Cropland	1,047	100	1,047	100	0	0	0	0	0	0	0	0	0	0	0	0	1,047
Developed	4	46	3	32	0	0	0	0	0	0	0	0	0	0	0	0	8
Emergent Marsh	89	100	89	100	0	0	0	0	0	0	0	0	0	0	0	0	89
Mudflat/Pickleweed	1,257	34	1,243	33	2,381	64	547	15	0	0	0	0	42	1	42	1	3,747
Pasture	7,985	100	7,978	99	20	0	18	0	0	0	0	0	0	0	0	0	8,025
Riparian	28	89	28	89	3	11	3	11	0	0	0	0	0	0	0	0	32
Scrub	14,734	99	14,720	99	101	1	87	1	0	0	0	0	0	0	0	0	14,917
Upland	0	33	0	33	0	33	0	33	0	0	0	0	0	0	0	0	1
Wet Meadow	646	79	636	78	42	5	41	5	0	0	0	0	0	0	0	0	819
Salt Lake Hydrologic Unit																	
Cropland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Developed	0	0	0	0	70	91	35	46	0	0	0	0	0	0	0	0	77
Emergent Marsh	113	7	7	0	1,521	87	89	5	0	0	0	0	0	0	0	0	1,740
Mudflat/Pickleweed	186	1	21	0	12,947	89	208	1	3	0	0	0	0	0	0	0	14,608
Pasture	400	5	381	5	7,384	95	7,244	93	0	0	0	0	0	0	0	0	7,796
Riparian	0	0		0	48	81	8	14	0	0	0	0	0	0	0	0	59
Scrub	2,714	22	2,548	21	9,434	77	9,092	74	0	0	0	0	0	0	0	0	12,258
Upland	115	19	115	19	481	80	457	76	0	0	0	0	0	0	0	0	598
Wet Meadow	43	5	6	1	756	85	168	19	1	0	1	0	0	0	0	0	887
Tooele Valley Hydrologic Unit																	
Cropland	589	100	588	100	0	0	0	0	0	0	0	0	0	0	0	0	589
Developed	2,871	91	2,774	88	220	7	180	6	0	0	0	0	56	2	51	2	3,163
Emergent Marsh	327	77	292	69	73	17	29	7	0	0	0	0	6	1	5	1	425
Mudflat/Pickleweed	12,663	29	8,649	20	19,480	45	1,338	3	0	0	0	0	10,576	25	8,807	20	43,120
Pasture	24,471	89	24,392	89	2,748	10	2,684	10	0	0	0	0	314	1	314	1	27,557
Riparian	153	82	117	63	28	15	22	12	0	0	0	0	7	4	7	4	188
Scrub	31,479	66	31,168	66	13,739	29	13,518	28	0	0	0	0	2,276	5	2,276	5	47,565
Upland	1,722	77	1,705	76	470	21	453	20	0	0	0	0	32	1	32	1	2,231
Wet Meadow	11,324	85	10,280	77	516	4	70	1	0	0	0	0	1,371	10	1,356	10	13,265

Table 3-11. Continued

Habitat	Private				Public				Public / Private				Public Trust				Total Low Water (acres)[1]
	Low Water (acres)	Low Water (%)	High Water (acres)	High Water (%)	Low Water (acres)	Low Water (%)	High Water (acres)	High Water (%)	Low Water (acres)	Low Water (%)	High Water (acres)	High Water (%)	Low Water (acres)	Low Water (%)	High Water (acres)	High Water (%)	
Utah Lake Hydrologic Unit																	
Cropland	3,909	98	3,909	98	61	2	61	2	5	0	5	0	1	0	1	0	3,985
Developed	22,197	98	22,197	98	95	0	95	0	69	0	69	0	2	0	2	0	22,750
Emergent Marsh	1,657	29	1,657	29	451	8	451	8	80	1	80	1	11	0	11	0	5,657
Mudflat/Pickleweed	749	49	749	49	763	50	763	50	12	1	12	1	0	0	0	0	1,533
Pasture	60,935	97	60,935	97	1,055	2	1,055	2	286	0	286	0	182	0	182	0	62,591
Riparian	152	74	152	74	40	19	40	19	0	0	0	0	0	0	0	0	205
Scrub	30,873	90	30,873	90	1,468	4	1,468	4	920	3	920	3	742	2	742	2	34,495
Upland	5,545	95	5,545	95	214	4	214	4	83	1	83	1	10	0	10	0	5,864
Wet Meadow	11,083	79	11,083	79	2,083	15	2,083	15	254	2	254	2	0	0	0	0	13,989

[1] The acreages shown in Total Low Water includes areas for which the available dataset did not provide ownership information.

Table 3-12. Distribution of Existing Habitat in the Region by Potential Population Density Category (2001–2030)

Potential Loss/Degradation of Wildlife Habitat (2001)						
Population Density:	High		Moderate		Low	
Habitat	Acres	%	Acres	%	Acres	%
Cropland	3,329	13	17,861	68	5,041	19
Emergent Marsh	70	0	6,470	44	8,141	55
Mudflat/Pickleweed	15	0	3,400	24	11,029	76
Pasture	43,134	15	66,662	24	173,408	61
Riparian	326	18	1,079	61	359	20
Scrub	25,300	5	49,258	10	403,572	84
Upland	16,132	4	25,284	6	350,289	89
Wet Meadow	1,383	5	12,322	42	15,442	53

Potential Loss/Degradation of Wildlife Habitat (2010)						
Population Density:	High		Moderate		Low	
Habitat	Acres	%	Acres	%	Acres	%
Cropland	4,380	17	16,810	64	5,041	19
Emergent Marsh	379	3	6,171	42	8,131	55
Mudflat/Pickleweed	35	<1	3,394	23	11,014	76
Pasture	59,612	21	51,325	18	172,268	61
Riparian	423	24	982	56	359	20
Scrub	36,286	8	39,455	8	402,389	84
Upland	19,052	5	22,535	6	350,117	89
Wet Meadow	1,973	7	11,757	40	15,418	53

Potential Loss/Degradation of Wildlife Habitat (2020)						
Population Density:	High		Moderate		Low	
Habitat	Acres	%	Acres	%	Acres	%
Cropland	6,087	23	15,102	58	5,041	19
Emergent Marsh	1,014	7	5,537	38	8,130	55
Mudflat/Pickleweed	247	2	3,183	22	11,014	76
Pasture	73,744	26	40,419	14	169,042	60
Riparian	515	29	891	50	359	20
Scrub	49,926	10	33,928	7	394,277	82
Upland	23,791	6	20,004	5	347,910	89
Wet Meadow	5,275	18	8,455	29	15,418	53

Potential Loss/Degradation of Wildlife Habitat (2030)

Population Density:	High		Moderate		Low	
Habitat	Acres	%	Acres	%	Acres	%
Cropland	8,672	33	12,518	48	5,041	19
Emergent Marsh	1,433	10	5,118	35	8,130	55
Mudflat/Pickleweed	288	2	3,142	22	11,014	76
Pasture	82,735	29	32,118	11	168,351	59
Riparian	799	45	606	34	359	20
Scrub	60,322	13	24,835	5	392,974	82
Upland	31,636	8	12,824	3	347,243	89
Wet Meadow	5,820	20	7,910	27	15,418	53

Table 3-13. Distribution of Existing Habitat in the Jordan River Hydrologic Unit by Potential Population Density Category (2001–2030)

Potential Loss/Degradation of Wildlife Habitat (2001)							
Population Density:	High		Moderate		Low		
Habitat	Acres	%	Acres	%	Acres	%	Total
Cropland	461	54	390	46	1	<1	852
Emergent Marsh	26	1	1,917	59	1,293	40	3,235
Mudflat/Pickleweed	8	<1	826	8	9,361	92	10,196
Pasture	21,858	41	24,058	45	7,383	14	53,299
Riparian	86	52	74	45	5	3	165
Scrub	14,532	24	28,173	46	19,003	31	61,709
Upland	12,838	40	13,052	41	5,919	19	31,809
Wet Meadow	646	16	2,519	61	998	24	4,163

Potential Loss/Degradation of Wildlife Habitat (2010)							
Population Density:	High		Moderate		Low		
Habitat	Acres	%	Acres	%	Acres	%	Total
Cropland	685	80	165	19	1	<1	852
Emergent Marsh	71	2	1,881	58	1,283	40	3,235
Mudflat/Pickleweed	17	<1	831	8	9,347	92	10,196
Pasture	31,867	60	15,190	28	6,242	12	53,299
Riparian	93	57	66	40	5	3	165
Scrub	21,616	35	22,273	36	17,820	29	61,709
Upland	14,833	47	11,229	35	5,747	18	31,809
Wet Meadow	819	20	2,370	57	974	23	4,163

Potential Loss/Degradation of Wildlife Habitat (2020)							
Population Density:	High		Moderate		Low		
Habitat	Acres	%	*Acres*	%	Acres	%	Total
Cropland	686	81	164	19	1	<1	852
Emergent Marsh	193	6	1,760	54	1,282	40	3,235
Mudflat/Pickleweed	34	<1	815	8	9,347	92	10,196
Pasture	38,699	73	11,583	22	3,017	6	53,299
Riparian	122	74	38	23	5	3	165
Scrub	33,248	54	18,754	30	9,708	16	61,709
Upland	18,852	59	9,417	30	3,540	11	31,809
Wet/Meadow	942	23	2,247	54	974	23	4,163

Table 3-13. Continued

Potential Loss/Degradation of Wildlife Habitat (2030)

Population Density:	High		Moderate		Low		
Habitat	Acres	%	Acres	%	Acres	%	Total
Cropland	768	90	83	10	1	<1	852
Emergent Marsh	193	6	1,760	54	1,282	40	3,235
Mudflat/Pickleweed	36	<1	813	8	9,347	92	10,196
Pasture	42,904	80	8,069	15	2,326	4	53,299
Riparian	150	91	10	6	5	3	165
Scrub	40,193	65	13,112	21	8,405	14	61,709
Upland	22,144	70	6,791	21	2,874	9	31,809
Wet Meadow	943	23	2,246	54	974	23	4,163

Table 3-14. Distribution of Existing Habitat in the Ogden Hydrologic Unit by Potential Population Density Category (2001–2030)

Potential Loss/Degradation of Wildlife Habitat (2001)							
Population Density:	High		Moderate		Low		
Habitat	Acres	%	Acres	%	Acres	%	Total
Cropland	2,868	14	17,471	86	3	<1	20,342
Emergent Marsh	45	1	4,458	98	31	1	4,534
Mudflat/Pickleweed	7	<1	2,218	100	3	<1	2,228
Pasture	21,274	33	42,574	66	847	1	64,695
Riparian	240	18	1,006	76	77	6	1,322
Scrub	10,739	33	21,036	65	754	2	32,529
Upland	3,281	21	12,190	78	168	1	15,639
Wet Meadow	737	7	9,764	93	14	<1	10,515

Potential Loss/Degradation of Wildlife Habitat (2010)							
Population Density:	High		Moderate		Low		
Habitat	Acres	%	Acres	%	Acres	%	Total
Cropland	3,695	18	16,644	82	3	<1	20,342
Emergent Marsh	278	6	4,225	93	31	1	4,534
Mudflat/Pickleweed	18	1	2,207	99	3	<1	2,228
Pasture	27,716	43	36,133	56	847	1	64,695
Riparian	330	25	915	69	77	6	1,322
Scrub	14,604	45	17,171	53	754	2	32,529
Upland	4,168	27	11,303	72	168	1	15,639
Wet Meadow	1,154	11	9,347	89	14	<1	10,515

Potential Loss/Degradation of Wildlife Habitat (2020)							
Population Density:	High		Moderate		Low		
Habitat	Acres	%	Acres	%	Acres	%	Total
Cropland	5,401	27	14,938	73	3	<1	20,342
Emergent Marsh	770	17	3,733	82	31	1	4,534
Mudflat/Pickleweed	169	8	2,057	92	3	<1	2,228
Pasture	35,015	54	28,834	45	847	1	64,695
Riparian	392	30	853	65	77	6	1,322
Scrub	16,608	51	15,168	47	754	2	32,529
Upland	4,888	31	10,583	68	168	1	15,639
Wet Meadow	4,329	41	6,172	59	14	<1	10,515

Table 3-14. Continued

Potential Loss/Degradation of Wildlife Habitat (2030)							
Population Density:	High		Moderate		Low		
Habitat	Acres	%	Acres	%	Acres	%	Total
Cropland	7,904	39	12,435	61	3	<1	20,342
Emergent Marsh	1,188	26	3,315	73	31	1	4,534
Mudflat/Pickleweed	208	9	2,017	91	3	<1	2,228
Pasture	39,800	62	24,049	37	847	1	64,695
Riparian	649	49	596	45	77	6	1,322
Scrub	20,056	62	11,720	36	754	2	32,529
Upland	9,438	60	6,033	39	168	1	15,639
Wet Meadow	4,873	46	5,628	54	14	<1	10,515

Table 3-15. Potential Impact (acres) of Future Development and the Build Alternatives in the Project Study Area

Habitat	Total Project Study Area	Build Out		Alternative A and Build Out		Alternative B and Build Out		Alternative C and Build Out		Alternative E and Build Out	
		Developed	Developable	Developed	Developable	Developed	Developable	Developed	Developable	Developed	Developable
Cropland	1733.1	264.3	1103.2	379.9	988.2	482.9	938.6	264.3	1011.6	374.3	994.4
Developed	1715.9	990.3	294.4	1049.5	271.2	1052.9	275.7	990.3	273.0	1053.5	270.5
Emergent Marsh	707.2	37.4	161.1	52.0	155.6	74.3	139.1	37.4	151.5	55.0	152.6
Mudflat/Pickleweed	439.8	11.6	168.9	17.3	167.4	26.3	156.5	11.6	152.1	26.4	159.7
Open Water	312.8	8.1	27.1	16.6	24.7	30.5	20.4	8.1	21.3	21.9	19.3
Pasture	2963.3	588.5	1706.5	754.2	1545.3	849.3	1544.0	588.5	1547.5	787.8	1522.9
Riparian	70.9	12.2	21.8	14.2	19.7	15.2	19.6	12.2	18.6	14.9	19.0
Scrub	1282.2	167.4	799.9	283.7	688.1	232.7	748.7	167.4	673.8	282.6	690.2
Wet Meadow	1118.9	68.7	566.8	130.2	511.6	147.0	506.3	68.7	499.6	127.7	515.8
Wetland	2649.7	138.1	945.6	230.4	878.9	293.5	841.8	138.1	843.1	246.0	866.4
Upland	5978.6	1020.2	3609.6	1417.8	3221.7	1564.9	3231.2	1020.2	3233.0	1444.8	3207.4